

ENTERED

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#7

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/609,027DATE: 07/17/2000
TIME: 14:44:25Input Set : A:\509501.app
Output Set: N:\CRF3\07172000\I609027.raw

3 <110> APPLICANT: Hendrickson, Wayne A
4 Jiang, Xuliang
5 Langley, Keith E
6 Syed, Rashid
7 Hsu, Yueh-Rong Ann
9 <120> TITLE OF INVENTION: CONJUGATED LIGANDS FOR THE STIMULATION OF BLOOD CELL
10 PROLIFERATION BY EFFECTING DIMERIZATION OF THE RECEPTOR
11 FOR STEM CELL FACTOR
13 <130> FILE REFERENCE: 50950/JPW/EMW
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/609,027
16 <141> CURRENT FILING DATE: 2000-06-29
18 <160> NUMBER OF SEQ ID NOS: 10
20 <170> SOFTWARE: PatentIn Ver. 2.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 141
24 <212> TYPE: PRT
25 <213> ORGANISM: human
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31 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
32 20 25 30
34 Val Pro Gly Met Asp Val Leu Pro Ser His Gln Trp Ile Ser Glu Met
35 35 40 45
37 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
38 50 55 60
40 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
41 65 70 75 80
43 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
44 85 90 95
46 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
47 100 105 110
49 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
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52 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser
53 130 135 140
56 <210> SEQ ID NO: 2
57 <211> LENGTH: 150
58 <212> TYPE: PRT
59 <213> ORGANISM: human
61 <400> SEQUENCE: 2
62 Glu Glu Val Ser Glu Tyr Cys Ser His Met Ile Gly Ser Gly His Leu
63 1 5 10 15
65 Gln Ser Leu Gln Arg Leu Ile Asp Ser Gln Met Glu Thr Ser Cys Gln
66 20 25 30
68 Ile Thr Phe Glu Phe Val Asp Gln Glu Gln Leu Lys Asp Pro Val Cys
69 35 40 45

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71 Tyr Leu Lys Lys Ala Phe Leu Leu Val Gln Asp Ile Met Glu Asp Thr
72      50      55      60
74 Met Arg Phe Arg Asp Asn Thr Pro Asn Ala Ile Ala Ile Val Gln Leu
75 65      70      75      80
77 Gln Glu Leu Ser Leu Arg Leu Lys Ser Cys Phe Thr Lys Asp Tyr Glu
78      85      90      95
80 Glu His Asp Lys Ala Cys Val Arg Thr Phe Tyr Glu Thr Pro Leu Gln
81      100      105      110
83 Leu Leu Glu Lys Val Lys Asn Val Phe Asn Glu Thr Lys Asn Leu Leu
84      115      120      125
86 Asp Lys Asp Trp Asn Ile Phe Ser Lys Asn Cys Asn Asn Ser Phe Ala
87      130      135      140
89 Glu Cys Ser Ser Gln Gly
90 145      150
93 <210> SEQ ID NO: 3
94 <211> LENGTH: 129
95 <212> TYPE: PRT
96 <213> ORGANISM: human
98 <400> SEQUENCE: 3
99 His Lys Cys Asp Ile Thr Leu Gln Glu Ile Ile Lys Thr Leu Asn Ser
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102 Leu Thr Glu Gln Lys Thr Leu Cys Thr Glu Leu Thr Val Thr Asp Ile
103      20      25      30
105 Phe Ala Ala Ser Lys Asn Thr Thr Glu Lys Glu Thr Phe Cys Arg Ala
106      35      40      45
108 Ala Thr Val Leu Arg Gln Phe Tyr Ser His His Glu Lys Asp Thr Arg
109      50      55      60
111 Cys Leu Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu Ile
112 65      70      75      80
114 Arg Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly Leu
115      85      90      95
117 Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn Phe
118      100      105      110
120 Leu Glu Arg Leu Lys Thr Ile Met Arg Glu Lys Tyr Ser Lys Cys Ser
121      115      120      125
123 Ser
127 <210> SEQ ID NO: 4
128 <211> LENGTH: 127
129 <212> TYPE: PRT
130 <213> ORGANISM: human
132 <400> SEQUENCE: 4
133 Ala Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His Val
134 1      5      10      15
136 Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp Thr
137      20      25      30
139 Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe Asp
140      35      40      45
142 Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys Gln
143      50      55      60

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145 Gly Leu Arg Gly Ser Leu Thr Lys Ile Lys Gly Pro Leu Thr Met Met
146 65 70 75 80
148 Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser Cys
149 85 90 95
151 Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys Asp
152 100 105 110
154 Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
155 115 120 125
158 <210> SEQ ID NO: 5
159 <211> LENGTH: 132
160 <212> TYPE: PRT
161 <213> ORGANISM: human
163 <400> SEQUENCE: 5
164 Ala Pro Thr Ser Ser Thr Lys Lys Thr Gln Leu Gln Leu Glu His
165 1 5 10 15
167 Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
168 20 25 30
170 Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Tyr Met Pro Lys Lys
171 35 40 45
173 Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys Pro
174 50 55 60
176 Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu Arg
177 65 70 75 80
179 Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile Val Leu Glu Leu Lys
180 85 90 95
182 Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala Thr
183 100 105 110
185 Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Cys Gln Ser Ile Ile
186 115 120 125
188 Ser Thr Leu Thr
189 130
192 <210> SEQ ID NO: 6
193 <211> LENGTH: 115
194 <212> TYPE: PRT
195 <213> ORGANISM: human
197 <400> SEQUENCE: 6
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201 Leu Leu Ser Thr His Arg Thr Leu Leu Ile Ala Asn Glu Thr Leu Arg
202 20 25 30
204 Ile Pro Val Pro Val His Lys Asn His Gln Leu Cys Thr Glu Glu Ile
205 35 40 45
207 Phe Gln Gly Ile Gly Thr Leu Glu Ser Gln Thr Val Gln Gly Gly Thr
208 50 55 60
210 Val Glu Arg Leu Phe Lys Asn Leu Ser Leu Ile Lys Lys Tyr Ile Asp
211 65 70 75 80
213 Gly Gln Lys Lys Lys Cys Gly Glu Glu Arg Arg Val Asn Gln Phe
214 85 90 95
216 Leu Asp Tyr Leu Gln Glu Phe Leu Gly Val Met Asn Thr Glu Trp Ile

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217          100          105          110
219 Ile Glu Ser
220          115
223 <210> SEQ ID NO: 7
224 <211> LENGTH: 164
225 <212> TYPE: PRT
226 <213> ORGANISM: human
228 <400> SEQUENCE: 7
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232 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
233 20 25 30
235 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
236 35 40 45
238 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
239 50 55 60
241 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
242 65 70 75 80
244 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
245 85 90 95
247 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
248 100 105 110
250 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
251 115 120 125
253 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
254 130 135 140
256 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
257 145 150 155 160
259 Pro Pro Val Ala
263 <210> SEQ ID NO: 8
264 <211> LENGTH: 164
265 <212> TYPE: PRT
266 <213> ORGANISM: MOUSE
268 <400> SEQUENCE: 8
269 Lys Glu Ile Cys Gly Asn Pro Val Thr Asp Asn Val Lys Asp Ile Thr
270 1 5 10 15
272 Lys Leu Val Ala Asn Leu Pro Asn Asp Tyr Met Ile Thr Leu Asn Tyr
273 20 25 30
275 Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Leu Arg Asp Met
276 35 40 45
278 Val Ile Gln Leu Ser Leu Ser Leu Thr Thr Leu Leu Asp Lys Phe Ser
279 50 55 60
281 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Gly
282 65 70 75 80
284 Lys Ile Val Asp Asp Leu Val Leu Cys Met Glu Glu Asn Ala Pro Lys
285 85 90 95
287 Asn Ile Lys Glu Ser Pro Lys Arg Pro Glu Thr Arg Ser Phe Thr Pro
288 100 105 110
290 Glu Glu Phe Phe Ser Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp

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291          115          120          125
293 Phe Met Val Ala Ser Asp Thr Ser Asp Cys Val Leu Ser Ser Thr Leu
294          130          135          140
296 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
297 145          150          155          160
299 Pro Pro Val Ala
303 <210> SEQ ID NO: 9
304 <211> LENGTH: 164
305 <212> TYPE: PRT
306 <213> ORGANISM: rat
308 <400> SEQUENCE: 9
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310 1 5 10 15
312 Lys Leu Val Ala Asn Leu Pro Asn Asp Tyr Met Ile Thr Leu Asn Tyr
313 20 25 30
315 Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Leu Arg Asp Met
316 35 40 45
318 Val Thr His Leu Ser Val Ser Leu Thr Thr Leu Leu Asp Lys Phe Ser
319 50 55 60
321 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Gly
322 65 70 75 80
324 Lys Ile Val Asp Asp Leu Val Ala Cys Met Glu Glu Asn Ala Pro Lys
325 85 90 95
327 Asn Val Lys Glu Ser Leu Lys Lys Pro Glu Thr Arg Asn Phe Thr Pro
328 100 105 110
330 Glu Glu Phe Phe Ser Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
331 115 120 125
333 Phe Met Val Ala Ser Asp Thr Ser Asp Cys Val Leu Ser Ser Thr Leu
334 130 135 140
336 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
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339 Pro Pro Val Ala
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344 <211> LENGTH: 165
345 <212> TYPE: PRT
346 <213> ORGANISM: DOG
348 <400> SEQUENCE: 10
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352 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Lys Ile Ala Leu Lys Tyr
353 20 25 30
355 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Val Met
356 35 40 45
358 Val Glu Gln Leu Ser Val Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
359 50 55 60
361 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
362 65 70 75 80
364 Lys Ile Val Asp Asp Leu Val Glu Cys Thr Glu Gly Tyr Ser Phe Glu
365 85 90 95

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VERIFICATION SUMMARY

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L:15 M:270 C: Current Application Number differs, Replaced Current Application Number